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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|----------------------|------------------|
| 09/937,275 | 03/04/2002 | Nacerdine Azzi | RCA 89433 (PF990009) | 8474 |

7590 06/15/2007
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| EXAMINER |
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WALFORD, NATALIE K

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| ART UNIT | PAPER NUMBER |
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2879

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| MAIL DATE | DELIVERY MODE |
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06/15/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

09/937,275

Applicant(s)

AZZI ET AL.

Examiner

Natalie K. Walford

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 March 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3 and 8-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) 1,3 and 10 is/are rejected.
- 7) ☒ Claim(s) 8 and 9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on December 9, 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

Response to Amendment

The Amendment, filed on March 23, 2007, has been entered and acknowledged by the Examiner. Claims 1, 3, and 8-10 are pending in the instant application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 3, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Milili (US 5,121,028) in view of Renders et al. (US 4,152,685).

Regarding to claim 1, Milili discloses in Figures 2-6, a deflection unit (55) for a color cathode ray tube comprising: a pair of saddle shaped vertical deflection coils (10) extending along a longitudinal axis Z of the tube, the pair of coils comprising a front portion (19) proximal a display screen, a rear portion (9) proximal an electron gun, and a harness portion (11 and 12) extending laterally between the front (19) and rear portion (9) and forming a window region (18) there-between, the harness portion (11 and 12) defined by an edge (11 a and 12a) extending laterally at a constant first radial angular position of about 0 degrees from the rear portion to a first location within the window region (18).

However, Milili does not disclose the edge having a second radial angular position at a second location within the window region.

The Renders reference teaches in Figures 2C-E and 3C-E, a deflection unit for a color cathode-ray tube comprising: the edge having a second radial angular position at a second location within the window region (column 2, line 40 to column 3, line 15) for the purpose of improving the accuracy of the electron converging on the display screen and enhancing a horizontal deflection efficiency, and eliminating a color shift of a convergence at a peripheral portion and an intermediate portion of a tube surface.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have construct the vertical deflection coil of Milili with a second radial angular position at a second location within the window region according to Renders in order to improve the accuracy of the electron converging on the display screen and enhances a horizontal deflection efficiency, and eliminates a color shift of a convergence at a peripheral portion and an intermediate portion of a tube surface.

Regarding to claim 3, Milili in view of Renders discloses the claimed invention except for the 7th-order harmonic of the potential is positive at the front of the coils, the Examiner asserts that the 7th-order harmonic is merely a property of the cathode ray tube and the prior art of record discloses the claimed invention. Further, it has been held that the property of a claimed apparatus does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations (see MPEP 2114).

Regarding to claim 10, Render teaches in Figures 2C-E and 3C-E, the second radial angular position is at least about 5 degrees and the motivation to combine is the same as above.

Allowable Subject Matter

Claims 8 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Regarding to claim 8, prior art of record taken alone or in combination fails to teach or suggest a deflection unit for a colour cathode-ray tube comprising: the constant second radial angular position is not more than about 30 degrees.

Regarding to claim 9, prior art of record taken alone or in combination fails to teach or suggest a deflection unit for a colour cathode-ray tube comprising: the first radial angular position is about 0 degrees. The Render reference teaches the second radial angular position is not more than about 25 degrees. Thus, the difference between the first radial angular position and the second radial angular position is not more than about 25 degrees and the motivation to combine is not obvious.

Response to Arguments

Applicant's arguments filed March 23, 2007 have been fully considered but they are not persuasive. Regarding Applicant's arguments that the Renders reference does not show or suggests "the harness portion defined by an edge extending laterally at a constant first radial angular position of about 0 degrees from the rear portions to the first location within the window region", the Examiner points to the Milili reference, which clearly shows in Figures 2-6, that the first radial angular position of about 0 degrees extending all the way to the front window, and

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thus the Examiner interprets that the first radial angular position can be defined from the rear portions to any first location within the window region, and thus the Milili reference teaches the claimed invention. The Examiner asserts that the combination of the Milili reference and the Render reference teaches the claimed invention and maintains the rejection.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

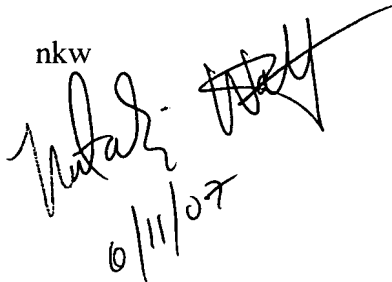
Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Natalie K. Walford whose telephone number is (571)-272-6012. The examiner can normally be reached on Monday-Friday, 8 AM - 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on (571)-272-2457. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

nkW

6/11/07


SIKHA ROY
PRIMARY PATENT EXAMINER